

## ABSTRACT

**DHIRGA WICAKSO. Relationship Power arm and hand-Eye Coordination Against the results of the Softball Ball Punch On Club Softball State University of Jakarta. Thesis. Jakarta: Keolahragaan Faculty of science, State University of Jakarta, April 2017.**

This research aims to get results about the Relationship: 1. power the arm against the results of the softball ball punch on Club members Softball UNJ, 2 hand eye coordination connection against the results of the softball ball punch on Club members Softball UNJ, 3. Relationship power arm and hand-eye coordination together against the results of the softball ball punch on Club members Softball UNJ. The methods used in the penelitian this is the descriptive method with the type of study korelasional. The approach used in this study was the quantitative approach. Research of sampling technique using sampling sampling technique that is saturated when all members of a population is used as a sample. The selected object is the entire members of the Club Softball UNJ i.e. as many as 30 members. The technique of hypothesis testing is done using a simple statistical correlation analysis techniques and correlation.

Based on the results of the research that is done, then the results of the study can be found as follows. First, the mean of the relationship between the power of the arm with the results of the softball ball punch with a linear line equation  $\hat{Y} = 10,286 + 7,093X_1$ . The correlation coefficient  $r_{x_1y} = 0,665$  and coefficient of determination  $(r_{y_1})^2 = 0,4356$ .  $t_{hitung} = 4,71$   $t_{tabel} = 2,60$  which means the variable power arm contributed to the results of the softball ball punch of 44,30%. Second, there is a relationship between eye-hand coordination ( $X_2$ ) against the results of the softball ball punch club softball UNJ ( $Y$ ), with a linear line equation  $\hat{Y} = -18,13 + 9,772X_2$ , correlation coefficient  $r_{x_2y} = 0,682$  and coefficients of determination  $(r_{y_2})^2 = 0,465$ .  $t_{hitung} = 4,93$   $t_{tabel} = 2,60$  which means hand eye coordination variables contribute to the results of the softball ball punch of 46,50%. Third, there is a relationship between power sleeves ( $X_1$ ) and the hand-eye coordination ( $X_2$ ) against the results of the softball ball blow ( $Y$ ), with a linear line equation  $\hat{Y} = -15,531 + 4,32X_1 + 1,72X_2$  correlation coefficient  $R_{xy_1-2} = 0,98$  and coefficient of determination  $(R_{y_1-2})^2 = 0,552$ .  $F_{hitung} = 16,612$   $F_{tabel} = 4,88$  which means the variable power arm and hand-eye coordination together contributed to the results of the softball ball punch of 55,20%. This research power arm and hand-eye coordination together contribute of 55,20% on the results of the softball ball punch.

***Keywords: Hand-Eye Coordination, Power, The Results  
Of The Softball Ball Punch.***